

the neck as viewed in a cross section perpendicular to the axis of symmetry and satisfies the following conditions:

$$0.26 < R < 0.43$$

where R is an average variation of height measured from the axis of symmetry to the each point of the curvature.

Both foregoing general description and the following Detailed Description are exemplary and are intended to provide further explanation of the invention as claimed.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

The accompanying drawings provide a further understanding of the invention and, together with the Detailed Description, explain the principles of the invention. In the drawings:

Fig. 1 shows a cross section of a cathode ray tube, as viewed in a cross section perpendicular to the axis of symmetry, according to a first preferred embodiment of the present invention;

Fig. 2 illustrates a cone of a funnel according to the first preferred embodiment of the present invention; and

Fig. 3 illustrates a cone of a funnel according to a second preferred embodiment of the present invention.

#### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

The present invention will be described in detail with reference to the